

ABSTRACT OF THE DISCLOSURE

A reformer for obtaining a synthesis gas by partially oxidizing a carbon-containing raw material and then steam-reforming the oxidized raw material, includes: a reactor vessel, an oxidizing agent feed pipe and a carbon-containing raw material feed pipe, wherein the central axis of the oxidizing agent feed pipe and the central axis of the carbon-containing raw material feed pipe intersect with each other downstream of the outlet of the oxidizing agent feed pipe in an oxidizing agent flowing direction and downstream of the outlet of the carbon-containing raw material feed pipe in a carbon-containing raw material flowing direction.